Approved for use through 10/31/2002. OMB 0651-0032

U.S Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY **PATENT APPLICATION TRANSMITTAL**

Please type a plus sign (+) inside this box -

Bilicska 3-2 Attorney Docket No. Carl Bilicska First Inventor AUTOMATED AUTHENTICATION HANDLING

Express Mail Labol No. E1692288349115

(Only for new nonprovision	nal applications under 37 CFR 1.53(b))	Express Mail Label No. E309228834903			
APPLICATION ELEMENTS		Assistant Commissioner for Patents ADDRESS TO: Box Patent Application			
See MPEP chapter 600 cond	cerning utility patent application contents.	Washington, DC 20231			
1. See Transmittal F (Submut an original and a 2. Applicant claims s See 37 CFR 1.27 3. Specification (preferred arrangemer - Descriptive title - Cross Referenc - Statement Reg - Reference to se or a computer p - Background of - Brief Summary	orm (e.g., PTO/SB/17) duplicate for fee processing) small entity status.  [Total Pages 12 ] int set forth below) of the invention set to Related Applications arding Fed sponsored R & D sequence listing, a table, orogram listing appendix the Invention of the Invention on of the Drawings (if filed)	Washington, DC 20231  7. CD-ROM or CD-R in duplicate, large table or Computer Program ( <i>Appendix</i> )  8. Nucleotide and/or Amino Acid Sequence Submission ( <i>if applicable, all necessary</i> )  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s))			
- Claim(s)	D	37 CFR 3.73(b) Statement Power of			
- Abstract of the 4.		10. (when there is an assignee) Attorney  11. English Translation Document (if applicable)			
5. Oath or Declaration	[ Total Pages 9]	12. Information Disclosure Copies of IDS Citations			
a. Newly exect Copy from a for continuation of the second states of the	uted (original or copy) a prior application (37 CFR 1.63 (d)) tion/divisional with Box 17 completed) TON OF INVENTOR(S) attement attached deleting inventor(s) the prior application, see 37 CFR	Statement (IDS)/PTO-1449  13. Preliminary Amendment  14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Other:			
	and 1.33(b)				
	Sheet. See 37 CFR 1.76				
or in an Application Data She	eet under 37 CFR 1.76:  Divisional Continuation-in-part (CIP)	oply the requisite information below and in a preliminary amendment,  of prior application No			
Prior application information	Examiner	•			
Box 5b is considered a part of	the disclosure of the accompanying continu	e prior application, from which an oath or declaration is supplied under lation or divisional application and is hereby incorporated by reference. rtently omitted from the submitted application parts.			
	18. CORRESPOND	ENCE ADDRESS			
Customer Number or Bar Co	de Label (Insert Customer Alo. or Attach)	or Correspondence address below			
Name	Donald J. Cox, Jr.				
	Gibbons, Del Deo, Dolan, Griffinger	r & Vecchione			
Address	1 Riverfront Plaza				
City	Newark	State   NJ   Zip Code   07102-5497			
	T	lephone 973-596-4853 Fax 973-639-6368			
Country	CD21 Te	repriorie   1.0 000   1 day   1.0 000 0000			
Name (Print/Type)	Donald J. Cox, Jr.	Registration No. (Attorney/Agent) 37, 804			
Signature		Date September 29, 2000			

Burden Hour Statement. This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Approved for use through 10/31/2002 OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

# **FEE TRANSMITTAL** for FY 2000

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

IJ Q

I

	710	$\Delta \Delta$
(\$)	730.	.UU

Complete if Known		
Application Number	Bilicska et al.	
Filing Date	September 29, 2000	
First Named Inventor	Carl Bilicska	
Examiner Name	Unassigned ,	
Group Art Unit	Unassigned	
Attorney Docket No.	Bilicska 3-2	

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)				
The Commissioner is hereby authorized to charge	3. ADDI				
Deposit Communication of the control	Large Ent	ity Sma	II Entit Fee	y Fee Description	Fee Paid
Account Number 12-2325	Code (\$	) Code	e (\$)	ree Description	ree Paid
Denocit	105 130	205	65	Surcharge - late filing fee or oath	
Account Name Lucent Technologies, Inc.	127 50	227	25	Surcharge - late provisional filing fee or cover sheet	
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	139 130	139	130	Non-English specification	
Applicant claims small entity status.	147 2,52	0 147	2,520	For filing a request for ex parte reexamination	
See 37 CFR 1.27	112 920	112	920*	Requesting publication of SIR prior to Examiner action	]
2. Payment Enclosed: Credit card Money Order Other	113 1,84	0* 113	1,840*		
	115 110	215	55	Extension for reply within first month	
FEE CALCULATION	116 380	216	190	Extension for reply within second month	
1. BASIC FILING FEE	117 870	217	435	Extension for reply within third month	
Large Entity Small Entity Fee Fee Fee Fee Description	118 1,36	0 218	680	Extension for reply within fourth month	
Code (\$) Code (\$) Fee Paid	128 1,85	0 228	925	Extension for reply within fifth month	
101 690 201 345 Utility filing fee	119 300	219	150	Notice of Appeal	
106 310 206 155 Design filing fee	120 300	220	150	Filing a brief in support of an appeal	
107 480 207 240 Plant filing fee	121 260	221	130	Request for oral hearing	
108 690 208 345 Reissue filing fee	138 1,51	0 138	1,510	Petition to institute a public use proceeding	
114 150 214 75 Provisional filing fee	140 110	240	55	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 690.00	141 1,21	0 241	605	Petition to revive - unintentional	
2. EXTRA CLAIM FEES	142 1,21	0 242	605	Utility issue fee (or reissue)	
Fee from Extra Claims below Fee Paid	143 430	243	215	Design issue fee	
Total Claims 13 -20** = 0 x 0 = 0	144 580	244	290	Plant issue fee	
independent 2 - 3** = 0 × 0 =0	122 130	122	130	Petitions to the Commissioner	
Multiple Dependent 0 =0	123 50	123	50	Petitions related to provisional applications	
**or number previously paid, if greater; For Reissues, see below	126 240	126	240	Submission of Information Disclosure Stmt	
Large Entity Small Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	581 40	581	40	Recording each patent assignment per property (times number of properties)	40.00
103 18 203 9 Claims in excess of 20	146 690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))	
102 78 202 39 Independent claims in excess of 3  104 260 204 130 Multiple dependent claim, if not paid	149 690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	
109 78 209 39 ** Reissue independent claims	179 690	279	345	Request for Continued Examination (RCE)	<del></del>
over onginal patent	169 900		900	Request for expedited examination	<b> </b>
110 18 210 9 ** Reissue claims in excess of 20 and over original patent	,03 300	, 103	500	of a design application	<b> </b>
anu over original paterit	Other fee (s	pecify) _			
SUBTOTAL (2) (\$) 0 · Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00				.00	
SUBMITTED BY Complete (if applicable)					

Telephone 973-596-4853 Donald J. Cox, Jr. 37,804 Name (Pnnt/Type) 09/29/2000 Date Signature WARNING: Information on this form may become public. Credit card information should not

Registration No.

be included on this form. Provide credit card information and authorization on PTO-2038.

5

## AUTOMATED AUTHENTICATION HANDLING SYSTEM

### BACKGROUND OF THE INVENTION

## 1. Field of the Invention

The invention relates to an automated authentication handling system. More particularly, the present invention relates to automating the authentication of a client among multiple servers.

## 2. <u>Description of the Related Art</u>

With the advent of networked computing systems, the user's need to use information and services distributed across computer networks and, in particular, the Internet has grown. In many instances, access to remote services and applications is restricted and requires an authentication process by the user before access is provided. As many more services are provided on such networks, the task of providing a separate authentication for each service can become burdensome to the end user. This can be especially true when the services are related in tasks or ownership.

Figure 1 illustrates a conventional configuration wherein clients 22-24 are connected to a network 26. A plurality of application servers 28-30 each having an authentication engine 32 are also connected to the network 26. Communication to these application servers by the clients, shown for purposes of illustration by lines 34-36 requires that the clients first establish a communications link with the application server 28-30 and then interact with the respective authentication engines 32 to establish access to the application server. In some instances establishing a trusted communication link meant that clients co-located at a facility were dedicated to communicate with a selected application server. Users wishing to use different applications had to physically move from client to client when wishing to access different application servers.

25

5

Figure 2 illustrates another configuration wherein the clients 22-24 again connects to application servers 28-30 though a network 26; however, the authentication engines 32 of Fig. 1 are co-located on a single authentication server 34. While suitable for its intended purpose, the client must still log into each of the application servers separately. Authentication occurs between the application servers and the authentication server for the client's establishment of a communications link.

Figure 3 illustrates another configuration wherein the clients 22-24 and application servers 28-30 are connected via the network 26 through an authentication server 36. In this instance the authentication server functions as a router in which the client 32 communicates to with each of the application servers through the authentication server 36 and can include a firewall 38 for security. While an improvement over existing authentication topologies, this authentication server can limit the client's access to the application by managing all communication between the client and the desired application server. In instances where a number of clients require communication the authentication server can delay communication between the application server and the client.

Thus, the need exists for a system for minimizing the authentication process across multiple servers in which authentication information can be distributed to multiple servers across a network.

### SUMMARY OF THE INVENTION

The present invention is an automated authentication handling system that allows for a user to initiate a single authentication process with an authentication server that automatically handles the authentication of the user for all other servers across the network where the user is permitted access. The authentication server further establishes a trusted communication link between the user and at least one of the other servers.

The present invention can be more fully understood by reference to the following description and accompanying drawings, which form an integral part of this application:

## **BRIEF DESCRIPTION OF THE DRAWINGS**

Figures 1-3 are functional block diagrams of typical client network connection topologies;

Figure 4 is a functional block diagram of a client network connection to application servers using an authentication server of the present invention;

Figure 5 is a functional block diagram of an authentication server having an identifier engine and a communication initiator engine; and

Figure 6 is a functional block diagram of a authentication signal flow during an authentication.

Express Mail No.: EJ692288349US

5

20

25

# DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference to Figure 4 for purposes of illustration, an automated authentication handling system 100 according to the present invention includes a plurality of clients 102-104 that are connected via a network 106 such as the Internet or an intranet. Similarly a plurality of application servers 108-110 are connected to the network. Advantageously the present invention includes an authentication server 111 connected to the network 106 and configured to authenticate the clients and application servers to establish a communication link 112-114 directly between the clients 102-104 and the application servers 108-110. For purposes of illustrating the features of this invention, the invention will be described in the context of the Internet protocols and more particularly the HyperText Transfer Protocols. However those skilled in the art will appreciate that the features of this invention may be utilized on any network protocol platform.

The authentication server 111 generally may include conventionally available hardware and software for connecting to the network and interacting with the network communication protocols used by the network. For example, when used over the Internet the server may include web server software of the type published by Apache Digital Corporation of Durango, CO. The Apache web server software is preferred as the server software may be easily configured to include specialized tasks using software compatible with the Common Gateway Interface (CGI). The authentication server of the present invention includes two specialized tasks or modules (Figure 5), namely, an identifier engine 116 and a communication initiation engine 118.

With continued reference to Figure 5, the identifier engine 116 includes a database 120 having a plurality of client identifier records 122 and a plurality of application server records 124. Each of the client identifier records is related to one or more of the application servers. The relationships of the client identifier records to the application servers is preferably tailored to the desired relationships between the clients 102-104 and the applications servers 108-110. The result of the relationships is that for each client identifier in the database a listing of application

20

25

servers authorized by the client identifier may be generated in a report. When a client provides a client identifier, a report 126 is generated and sent to the client containing a listing of the application servers authenticated for access by the client identifier. The report is preferably generated in a hyper-text format such as the hyper-text markup language (HTML) used by the hyper-text transfer protocol (HTTP) which makes up a part of the Internet protocols. The hyper-text format is embedded with a link for each application server in the listing. The link addresses the communication initiator engine on the authentication server and includes a request to establish a communication link with associated application server. This request is preferably in the form of an HTML POST command in which the application server is provided in the hypertext document in an encrypted format. This prevents the temptation by the user at the client to modify the hypertext document to change the access privileges.

Accordingly, the hypertext report provides a user interface 128 that may be used by a client when the hypertext document is loaded by a conventional web browser of the type such as Explorer published by Microsoft or Navigator published by Netscape. The user interface 128 when used on a client having a conventional graphical user interface such as Microsoft Windows or Apple Macintosh OS, may appear as a separate window that can be accessed when needed by a user on the client. Using the HTML language it will be appreciated that a number of user interface configurations maybe used including, but not limited to, pull-down menus or hypertext listings. Once the document has been sent to the client, no further authentication by the user is required to access the application servers contained in the listing. This user interface provides a great advance over existing authentication methodologies as the user does not have to provide a separate authentication for each of the application servers. Furthermore, it will be appreciated that the authentication administration can be handled by a single server rather than having separate authentication administration for each of the application servers. The client's communication with the authentication may include a Secure Socket Layer (SSL) session link,

25

5

cookies or other conventional security measures that may be used to verify continued communication from the client to the authentication server.

In another embodiment, the client identifier is further related to session assignment information for each of the application servers. The session assignment can include information for limiting client access to the features on each of the application servers as well as session timeout information. It will be appreciated that the session assignment information may be specifically tailored to the access capabilities of each of the application servers. When the report in hypertext format is sent to the client the link designating a request for an application server my be encoded with the application server information also in an encrypted format.

The communication initiator engine 118 is responsive to a request from the client to establish a communication link 130 with one of the application servers. The communication initiator engine 118 preferably receives the encrypted request information illustrated by line 132 and decrypts the information. The request information is preferably compared to a look-up table in which each application server and session assignment information is stored as a separate listing. The authentication server matches the client's request with the appropriate listing. The listing is combined with the client's address. The client address and the session information is then encrypted by the communication initiator engine and transmitted to the application server illustrated by line 134 again using the HTTP POST method.

The application server receives the information transmitted in the post command and includes a verification engine 136, preferably running as a CGI script on the application server. It should be noted that the verification engine 136 does not verify that the information was received by checking the IP address of a trusted authentication server, rather it decrypts the posted information and uses a shared secret data field to verify the authentication server. It will be appreciated by those skilled in the art that such verification allows for the dynamic IP addressing of the authentication server. The encryption/ decryption method used by the present invention may vary; however, a public key/ private key methodology is presently preferred.

25

5

Thus, the decryption of information from the authentication server is decrypted using the private key contained on the application server. The decrypted information includes the session assignment information and the client's address. The pushed information also preferably includes a verification record that contains secret information shared exclusively between the authentication server and the application as a further verification that the information was transmitted from a trusted source. If the verification fails an error message is returned and no further action is taken.

If the verification is cleared, a Uniform Resource Locator (URL) is generated containing a unique address for the client to access the application and further includes session assignment information that is encrypted by the verification engine prior to transmittal. The special URL is then transmitted to the Authentication Server illustrated by line 140 which in turn forwards the URL directly to the Client illustrated by line 142. Once received by the client, the URL is addressed back to the application server directly from the client along with the encrypted session information initiating the communication link 134. The application server again decrypts the session information and verifies that the URL request was transmitted from the IP address of the client 102 originally transmitted to the application server by the authentication server. The application server also verifies that the session timeout time is still valid. The application server then establishes the trusted communication link 134 directly with the client. The trusted communication link 134 may include security such as an SSL communications link or a cookie containing the relevant session information may be placed on the client's computer. The cookie is used by the application to verify the user and provide other information relevant to the session such as a session time-out information. The URL then redirects the Client to the main session application page of the web site.

With reference to Figure 6, the signaling between a client 102 and an application server 108 using an authentication server 108 includes initiating a login request from the client to the authentication server illustrated by line 125. The authentication server replies with a report in

hypertext listing the application servers authorized access by the client illustrated by line 126. A client selects an application server for access and submits a request to the authentication server illustrated by line 132. The authentication server forwards the request to the application server illustrated by line 134. The application server responds and confirms access as illustrated by line 140. The authentication server forwards the selection authorization to the client 102 illustrated by line 142. The client 102 and application server 108 establish and communicate via a trusted communication link illustrated by line 130.

It is understood that the above description and drawings are illustrative of the present invention and details contained therein are not to be construed as limitations on the present invention. Changes in procedure and structure may be made without departing from the scope of the present invention as defined in the following claims.

Express Mail No.: EJ692288349US

# WHAT IS CLAIMED IS:

1	1.	An automated authentication handling system for use by clients on a network compr	rising

- a plurality of application servers connected to said network, each requiring authentication
- 3 for access; and
- an authentication server adapted to authenticate at least one of said clients and establish a
- 5 trusted communication link for access by an authenticated user to at least one of said application
- 6 servers.

2

1

2

1

2

2. The automated authentication handling system of claim 1 wherein said authentication server includes:

an identification engine configured to maintain collections of session assignments for accessing said application servers, each of said session assignment collections being associated with a client identifier.

- 3. The automated authentication handling system of claim 2 wherein said identification engine is adapted to receive client identifiers from said clients to establish authenticated users and responsive thereto to provide a user interface to access said application servers according to said associated session assignments.
- 4. The automated authentication handling system of claim 1 wherein said authentication server includes:
- a communication initiator engine configured to establish a trusted communication link between said authenticated users and said application servers.
- The automated authentication handling system of claim 3 wherein said authentication server includes:

2

3

**1** 

#12

345617

2

3	a communication initiator engine configured to establish a trusted communication link
4	defined to one of said session assignments between said authenticated users and said application
5	servers.

- 6. The automated authentication handling system of claim 1 wherein said session assignments include data fields selected from the group consisting of session timeout and application access level.
- 7. The automated authentication handling system of claim 1 wherein said client identifiers include a user id and password.
  - 8. The automated authentication handling system of claim 1 wherein said authentication server includes a processor under the control of software to:

receive an authentication signal from said client;

provide an application access interface to said client in response to said authentication signal; and

establish a trusted communication link between said client and a application server selected from said application access interface.

- 9. A method for automatically authenticating a client for a plurality of application servers comprising the steps of:
- 3 providing an authentication server;
- 4 identifying clients for access to said application servers by said authentication server; and
- 5 establishing a trusted communication link between at least one of said clients and at least
- 6 one of said application servers.
- 1 10. The method of claim 9 wherein said identifying step includes:
- providing a session parameters for each of said identified clients for at least one of said
   application servers.

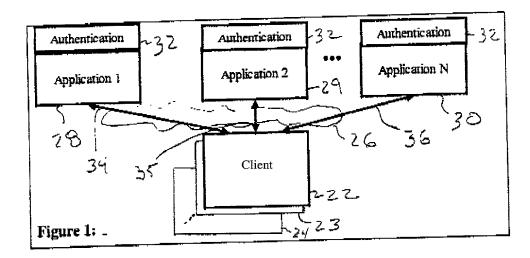
Express Mail No.: EJ692288349US

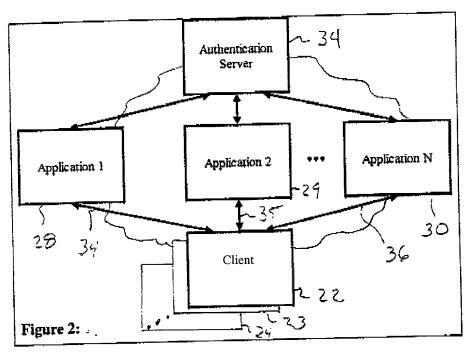
- 4 11. The method of claim 9 wherein said identifying step includes:
- 5 providing a user interface to said identified clients for accessing said application servers.
- 1 12. The method of claim 10 wherein said establishing step includes:
- 2 using said session parameters to establish said trusted communication link.
- 1 13. The method of claim 11 wherein said user interface includes a listing of application
- 2 servers and said establishing step is initiated following a selection of an application server by a
- 3 user from said user interface.

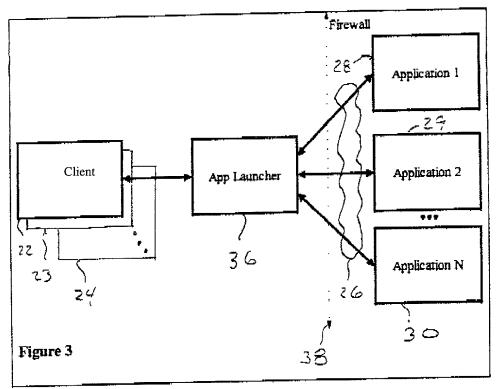
# **ABSTRACT**

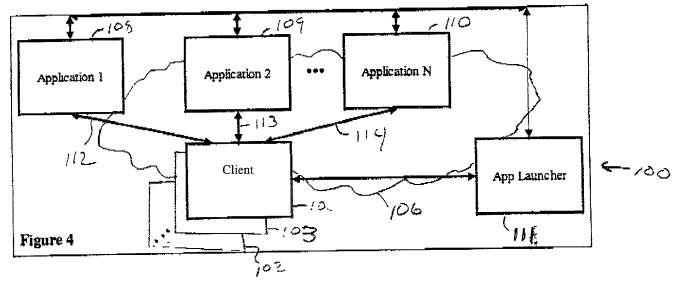
Express Mail No.: EJ692288349US

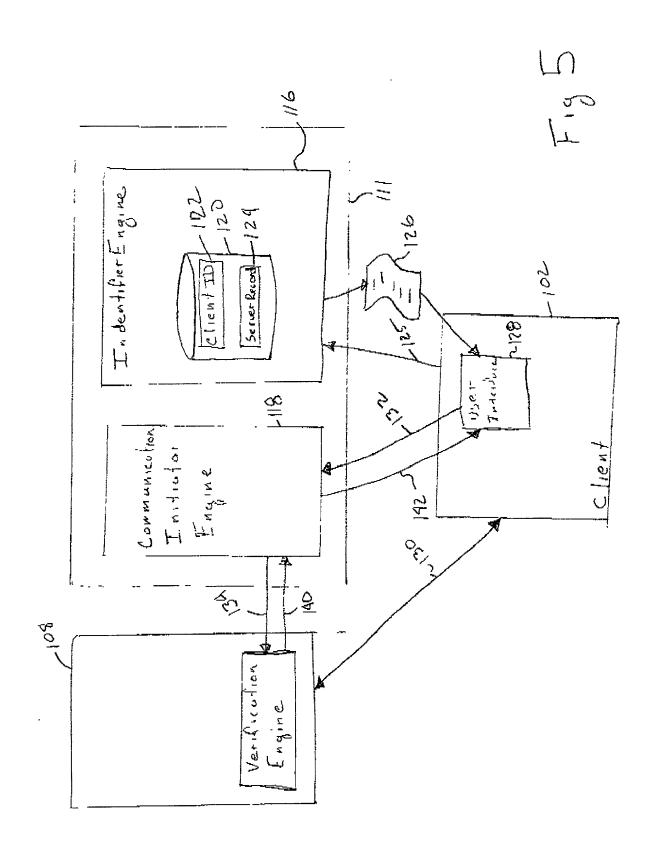
An automated authentication handling system for use by clients on a network including a plurality of application servers connected to the network, each requiring authentication for access and an authentication server adapted to authenticate at least one of the clients and establish a trusted communication link for access by an authenticated user to at least one of the application servers.

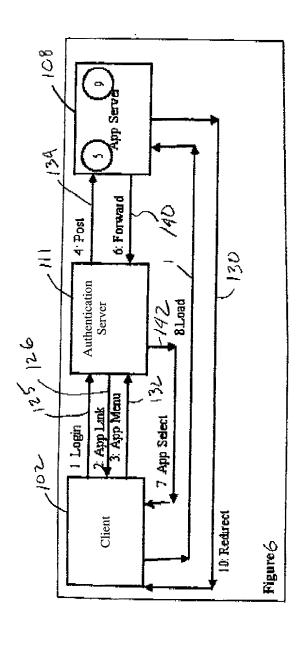












# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Declaration and Power of Attorney

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our name.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled AUTOMATED AUTHENTICATION HANDLING SYSTEM filed herewith.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

#### None.

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

#### None.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum	(Reg. No. 25830)
Richard J. Botos	(Reg. No. 32016)
Jeffery J. Brosemer	(Reg. No. 36096)
Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Guy Eriksen	(Reg. No. 41736)
Martin I. Finston	(Reg. No. 31613)
William S. Francos	(Reg. No. 38456)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Anthony Grillo	(Reg. No. 36535)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Matthew J. Hodulik	(Reg. No. 36,164
John B. MacIntyre	(Reg. No. 41,170)
Michael B. Johannesen	(Reg. No. 35557)
Mark A. Kurisko	(Reg. No. 38944)
Irena Lager	(Reg. No. 39260)
Christopher N. Malvone	(Reg. No. 34866)
Scott W. McLellan	(Reg. No. 30776)
Martin G. Meder	(Reg. No. 34674)
John C. Moran	(Reg. No. 30782)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Eugen E. Pacher	(Reg. No. 29964)
Jack R. Penrod	(Reg. No. 31864)
Gregory C. Ranieri	(Reg. No. 29695)
Scott J. Rittman	(Reg. No. 39010)
Ferdinand M. Romano	(Reg. No. 32,752)
Ozer M.N. Teitelbaum	(Reg. No. 36,698)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ronald D. Slusky	(Reg. No. 26585)
David L. Smith	(Reg. No. 30592)
John P. Veschi	(Reg. No. 39058)
David Volejnicek	(Reg. No. 29355)
Charles L. Warren	(Reg. No. 27407)
Jeffrey M. Weinick	(Reg. No. 36304)
Eli Weiss	(Reg. No. 17765)

We hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name 1st joint inventor: Carl Bilicksa

Inventor's signature (Aul Believ

Date 9/29/2000

Residence:

3 Jacobus Lane

Readington, NJ 08822

Citizenship:

USA

Post Office Address:

3 Jacobus Lane

Flemington, NJ 08822

Full name 2nd joint inventor: Douglas Allon Sick

Inventor's signature

Date 9/29/00

Residence:

15 Wharton Way

High Bridge, New Jersey 08829

Citizenship:

USA

Post Office Address:

15 Wharton Way

High Bridge, New Jersey 08829

## **ATTACHMENT A**

Attorney Name(s):	Henry J. Walsh	Reg. No.:	24,451
	Roger Rathbun		24,964
	David Padnes		<u>28,384</u>
	David J. Rosenblum		37,709
	Donald J. Cox		37,804
	Kristine L. Butler		42,376
	Vincent E. McGeary		42,862

Telephone calls should be made to **Donald J. Cox**, **Jr.**, **Esq. at Gibbons**, **Del Deo**, **Dolan**, **Griffinger & Vecchione** at:

Phone No.:

973-596-4500 or 973-596-4853

Fax No.:

973-596-6368

All written communications are to be addressed to:

Intellectual Property Docket Administrator
Gibbons, Del Deo, Dolan, Griffinger & Vecchione
One Riverfront Plaza, Newark, New Jersey 07105-5497